/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

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Structural Analysis Summary

/ palindromes

se)	- M
tide (Sens	AC
DNA Oligonucleotide (Sens	TAA AC 3
н	TCG
лт I)" а 20-ше	CTG
Analysis of "table1 (slmb primer cyt L)"	CAT CTG
ablel (slm	CCT
ysis of "t	CAA
Anal	5

Oligonucle	Oligonucleotide Analysis	Analysis Parameters	meters
margarias weight	6101.0	Delta G Temperature	25.0 degrees C
Im Chermodynamic	56.4 degrees C	56.4 degrees C Probe concentration	) to 1600 o 161
Filtor Tm	48.8 degrees C	48.8 degrees C Salt concentration	1000 C
ar Se	66.2 degrees C	66.2 degrees C Formamide concentration	TOTAL 0:000
AT+GC Im	58.0 degrees C	58.0 degrees C 3' End length	, o
Absorbance	5.3 nMo1/A260 Run length	Bun Jength	Dases
Absorbance	32.5 ug/A260	Palindrome length	4 bases
Percent GC	45.0 %	Hairbin 1000 nem	8 bases
Delta G	-28.7 kCal/Mol	usfuar mane door madara	3 bases
Delta H	-140.6 kCal/Mol		
Delta s	-368.0 eu		
[3' End Delta G	-5.9 kCal/Mol		

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/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Structural Analysis Summary

/ palindromes

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

				<u>)</u>		_				_			
,	n		25.0 degrees	0.6 pMol	1000.0 mMol	8 0.0	7 bases	Dage of	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		n 0 0 0		
		eters	25.	.0	1000	.0		•	14,	, (	,		
ATC	)	Analysis Parameters	a)	<b>.</b>		uoth				ength			
GOT GOT GGA ATC THE		Analy	70.8 degrees C Probe Concenture	63.2 degrees c salt concentration	72.3 degrees C Formamide Concentration	Proth	* ( i.g.c.);	Palindrom	Je rength				
CH		Delta	Probe	Salt	Formami	3' End	Run Jen	Palindro	Hairbir	117711		==	
ָרָדִּ רָדִּ			degrees (	degrees c	degrees C	degrees C 3' End length	5.6 nMo1/A260 Run length	/A260		-37.5 KCal/Mol	-164.6 kCal/Mol	eu	-5.1 kCal/Mol
ָ פ	sotide Analysis	6220.1	70.8	63.2	72.3	9 1	5.6	34.8	8 0.09	-37.5	-164.6	-419.9 eu	-5.1
	ucleotide												
]	Molecular Weight	odynamic				9	9	ប៉				lta G	
	Molecula	Th thermodynamic	Filter Tm	SC PH	AT+GC TE	Absorbance	Absorbance	Percent GC	Delta G	Delta H	Delta 3	[3' End Delta	

<u>-</u> Analysis of "table 3 (slmb primer ITS2 F)" a 20-mer DNA Oligonucleotide (Sense) HU TTA TIC ACC CTG TGA ACT 5

Molecular Weight 6098.0  Molecular Weight 6098.0  Filter Tm 63.7  % GC Tm 43.7  AT+GC Tm 64.2  Absorbance 5.6  Absorbance 34.0  Percent GC 90.0  Delta G -26.5  Delta B -36.8	6098.0 51.3 degrees C Probe concent: 43.7 degrees C Salt concent: 64.2 degrees C Formamide conc 56.0 degrees C 3' End length 5.6 nMol/A260 Run length 34.0 ug/A260 Palindrome ler 40.0 % 40.0 % 40.0 % 136.5 kCal/Mol -36.5 Run loop s	Medical Market State Sta	25.0 degrees C 0.6 pMol 1000.0 mMol 0.0 % 7 bases 4 bases 3 bases
[3' End Delta G	-3.9 kcal/Mol		

Summary	omes
Analysis	/ palindromes
Structural	runs
	ase

Number	οĘ	base runs	/ palindro	omes	0 / 0
Number	οĘ	hairpin loops			. 0
Number	of	dimers	/ 2-oligo	dimers	
Number	Ó.	bulge loops	٦ŏ	1 3 4 6	· ·
Number	of	internal loops	01101	, t	
			5	7	_ > >

Analysis of "table 4 ( slmb primer ITS2-H)" a 24-mer DNA Oligonucleotide (Antisense) CTG TGA ACT CAT GGA TGC CIC ATA **U** 

Oligonucleotide Analysis	Analysis			Analysis Parameters	meters
Molecular weight	7407.9		Delta	Delta G Temperature	25.0 degrees C
Im thermodynamic	65.4 de	grees C	Probe	65.4 degrees C Probe concentration	0.6 pMol
Filter Im	57.8 de	grees C	Salt	57.8 degrees C Salt concentration	1000.0 mMol
& GC Tm	72.2 de	grees C	Forman	72.2 degrees C Formamide concentration	8 0.0
AT+GC Im	70.0 de	grees C	3' Enc	70.0 degrees C 3' End length	7 bases

Molecular weight 7407.9	7407.9	,	Delta	Delta G Temperature
Tm thermodynamic	65.4	degrees C	Probe	65.4 degrees C Probe concentration
Filter Tm	57.8	legrees C	Salt	57.8 degrees C Salt concentration
GC Tm	72.2 0	degrees C	Forman	72.2 degrees C Formamide concentration
AT+GC Tm	70.07	70.0 degrees C 3' End length	3' Enc	d length
Absorbance	4.4 1	4.4 nMol/A260 Run length	Run le	ength
Absorbance	32.4 0	1g/A260	Palino	32.4 ug/A260   Palindrome length
Percent GC	45.8 %		Hairpi	Hairpin loop stem length
Delta G	-35.5 k	-35.5 kCal/Mol		
Delta H	-169.5 kCal/Mol	cCal/Mol		
Delta S	-442.0 eu	ne		
3' End Delta G	-5.2 k	-5.2 kCal/Mol_		

7 bases
4 bases
8 bases
3 bases

Number	jo	base runs	/ palindro	romes	0 / 0
Number	of	hairpin loops			0
Number	of	dimers	/ 2-oligo	dimers	0 / 0
Number	οĘ	bulge loops	/ 2-oligo	bulges	0 / 0
Number	of	internal loops	/ 2-oligo	internals	0 / 0

AAC Analysis of "table 5 ( slmb primer pro-L ) " a 24-mer DNA Oligonucleotide(Sense) TCA AAG ACC CGT TOT CAG

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(M)

25.0 degrees 0 0.6 pMol 1000.0 mMol 0.0 % bases bases bases bases 3 8 4 Analysis Parameters Hairpin loop stem length 67.8 degrees C Salt concentration
60.2 degrees C Salt concentration
72.2 degrees C Formamide concentration
70.0 degrees C 3' End length
4.3 nMol/A260 Run length
31.4 ug/A260 Palindrome length
45.8 % Delta G Temperature -169.9 kcal/Mol -36.5 kcal/Mol Oligonucleotide Analysis Molecular weight Im thermodynamic Percent GC Absorbance Absorbance Filter Im AT+GC Im & GC Tm Delta G Delta H

Structural Analysis Summary

-4.9 kCal/Mol

Ü

3' End Delta

Delta S

Number	οĘ	base runs	/ palindr	omes	0 / 0
Number	οĘ	hairpin loops	ì		
Number	of	dimers	/ 2-oligo	dimers	0 / 0
Number	οf	bulge loops		· o	0 \
Number	of	internal loops		Н	0 / 0
			7		

Analysis of "table 6 ( slmb primer Dloop-H)" a 23-mer DNA Oligonucleotide(Antisense) ATC ATA S

CAC AAA CAT CAG ATC Oligonucleotide Analysis

M

O 25.0 degrees bases bases bases bases 0.6 pMol 1000.0 mMol 4 0 W 0.0 Analysis Parameters Hairpin loop stem length degrees C Formamide concentration degrees C 3' End length Delta G Temperature C Probe concentration nMol/A260 Run length ug/A260 Palindrome length 53.6 degrees C 66.4 degrees C 62.0 degrees C 4.3 nMol/A260 30.0 ug/A260 34.8 % -163.3 kCal/Mol -429.7 eu -4.6 kCal/Mol degrees 61.2 7033.7 Molecular weight Tm thermodynamic 3' End Delta G Absorbance Absorbance Percent GC Filter Im AT+GC Tm CC TH Delta H Delta G Delta S

			£ 15	
Number	of	base runs	/ palindromes	
Number	of	hairpin loops		_
Number	ot	dimers	/ 2-oligo dimers	_
Number	of	bulge loops	-oligo bulga	
Number	of	rna	-oligo inter	

Analysis of "table 7 ( slmb primer ROD-L)" a 20-mer DNA Oligonucleotide (Sense)  S CCT GGT AGA GTT CGC CGT CA 3 1

	rameters	25.0 degrees a	0.6 pMol	1000.0 mMn	8 0.0	7 bases	tento C	80 00 00 00 00 00 00 00 00 00 00 00 00 0	3 50 60	3			_
	Analysis Parameters	67.4 degrees C Probe constant	59.8 degrees C Salt Concentration	72.3 degrees C Formamide contration	3' End length	Run length	33.0 ug/A260 Palindrome learn	Hairnin loom	The room stem length				
le Analysis	6189.0	67.4 degrees C	59.8 degrees C	72.3 degrees C	64.0 degrees C 3' Fnd length	5.3 nMol/A260 Run length	33.0 ug/A260			-154.3 kCal/Mol	-394.4 eu	-9.6 kcal/Mol_	
Molecular Lain Ligonucleotide Analysis	The thermodynamic	Filter Tm	* GC 17m	AT+GC Th	Absorbance	Absorbance	Percent GC	Delta G	Delta H	Delta 3	(3' End Delta G		

0000	,
Number of base runs / palindromes Number of hairpin loops Number of dimers / 2-oligo dimers Number of bulge loops / 2-oligo bulges Number of internal loops / 2-oligo internals	

of "table 8 ( slmb primer ROD-H )" a 22-mer DNA Oligonucleotide (Antisense)	F CAT TGT GCC T 3'
Analysis of "table 8 ( slmb primer ROD-H	Oligonucleoride annual

T 31	Analysis Parameters			69.5 degrees C Formamide Concentration 1000.0 mMol	·	5.2 nMol/A260 Run length 7 bases	Palindrome length				
Oligonucleotide Analysis		lynamic					Percent GC 34.9 ug/A260	Delta G . 45.5 %	Delta s -165.0 kCal/Mol	3' End Dalta C	-7.9 kGa 1 /kg

	0 / 0	000 ///	
Analvaia Summan	/ palindromes	/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals	
Structural	Number of base runs Number of hairpin loops	O.	

**(1)** Analysis of "table 9 ( LRMB primer 165-L )" a 21-mer DNA Oligonucleotide (Sense) CTC LLL ATG AGT CCA CAG CAC Ŋ

Oligonucleotide Analysis

oa i donne i eo c	Oligonicieotide Analysis	Analogo Darameter	102
Molecular veight		BID! CTC CTC.	וופרטז א
THE THINKS	6421.2	Delta G Temperature	25 0 degrees 0 2C
The thermodynamic	1 1 1 1 1 1		יייי ממקדעמט כייי
	or.3 degrees C	ol. 3 degrees C Probe concentration	0.6 pMol
TT TOOT TH	53.9 degrees C	53.9 degrees C  Salt concentration	1000
€ GC TB	68.9 degrees	68.9 Courses Chromanillo Constitution	TOKAN 0.0001
AT+GC Th		בסדיוומיודמב בסווכבוורומרוסט	æ o.o
	oz.U degrees C∥3' End length	3' End length	7 bases
Absorbance	5.1 nMol/A260 Run length	Run length	
Absorbance	33.0 104/8260	1 1 1 0 C C C C C C C C C C C C C C C C	משמ מיי
Derroent Of	,	Latinatonia rengen	B Dases
	* 0.74	Hairpin loop stem length	7 2000
Delta G	-31.9 kCal/Mol		
Delta H	-152.3 kcal/Mol		
Delta S	-396.4 eu		
[3' End Delta G	-4.9 kCal/Mol		

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Structural Analysis Summary

/ palindromes

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2-oligo dimers 2-oligo bulges 2-oligo internals

Number of hairpin loops Number of dimers Number of bulge loops Number of internal loops

Number of base runs

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Analysis of "table 10 ( LRWB primer 16S-H )" a 18-mer DNA Oligonucleotide (Antisense)

<u>-</u> CAG AGT AGC TIC TAG TCG <del>ا</del>

Oligonucleot	Oligonucleotide Analysis			Analysis Parameters	neters	
Molecular weight	5594.7		Delta	Delta G Temperature	25.0 degrees C	โบ
The thermodynamic	51.2	degrees C	Probe	51.2 degrees C Probe concentration	ניאת איי	
Filter Tm	43.6	degrees C	S = 1	43.6 degrees Cast concentration	LONE O COCL	
* GC Th	64.5	degrees C	Formai	64.5 degrees C Formamide concentration	# C - C	
AT+GC TH	54.0	54.0 degrees C 3' End length	3' Enc	d length	7 Dases	
Absorbance	5.7	5.7 nMol/A260 Run length	Run 1	ength	4 Dases	
Absorbance	31.8	31.8 ug/A260	Paline	Palindrome length	ຄອກ ຄຸດ 8	
Percent GC	50.0 %	de .	Hairp	Hairpin loop stem length		
Delta G	-25.3	-25.3 kCal/Mol	•	4		
Delta H	-123.0	-123.0 kCal/Mol				
Delta 3	-320.5 eu	ne				
[3' End Delta G	6.4-	-4.9 kCal/Mol_				$\neg$

	١					
Number	of	base runs	/ palindro	omes	0 / 0	
Number	of	hairpin loops			0	
Number	οf	dimers	/ 2-oligo	dimers	0 / 0	_
Number	of	bulge loops	/ 2-oligo	bulges	0 / 0	
Number	of	internal loops	/ 2-oligo	internals	0 / 0	

Analysis of "table 11 ( LRMB primer 12S-L )" a 19-mer DNA Oligonucleotide (Sense)

## AGA CHC TCG CCC TIC CTA ເປ -

Oligonucleotide Analysis		Analysis Parameters	ieters
Molecular weight	5779.B	Delta G Temperature	25.0 degrees C
Tm thermodynamic	62.1 degrees C	62.1 degrees C Probe concentration	0.6 pMol
Filter Tm	54.5 degrees C	54.5 degrees C Salt concentration	1000.0 mMol
♣ GC Th	69.7 degrees C	69.7 degrees C Formamide concentration	8 0.0
AT+GC Tm	60.0 degrees C	60.0 degrees C 3' End length	7 bases
Absorbance	6.0 nMol/A260 Run length	Run length	4 bases
Absorbance	34.6 ug/A260	Palindrome length	8 bases
Percent GC	57.9 %	Hairpin loop stem length	3 bases
Delta G	-31.8 kCal/Mol		•
Delta H	-146.6 kCal/Mol		
Delta S	-378.6 eu		
3' End Delta G	-4.6 kCal/Mol		

Summary	
Analysis	
Structural	

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Number	Jo	base runs	/ palindromes	0 / 0
Number	οĘ	hairpin loops		0
Number	οĘ	dimers	/ 2-oligo dimers	0 / 0
Number	of	bulge loops	/ 2-oligo bulges	0 / 0
Number	οĘ	internal loops	/ 2-oligo internal	0 / 0 s

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops/

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0

/ palindromes

•	· η
Antisense	AC
nucleotide	CTT
DNA Oligo	CAC
f "table 12 ( LRMB primer 12S-H )" a 23-mer DNA Oligonucleotide (Antisense)	C TCC ATC CCT CAC CTT AC 3
imer 12S-H	ATC
( LRMB pr	: ATC
: "table 12	TCC
nalysis of	CCC
4	ال -

		Analvsis Parameters	erers
Origonaleotide Analysis			C POSTODA C RC
20100110		nelta G Temperature	23.1 degree 0.02
Molecular weight	7.0000		0.6 pMol
	70.8 degrees C	70.8 degrees C Probe concentration	LOWER OF COO.
The thermodynamic	Ca o degreeds C	ca a dadrage c salt concentration	TO00.001
Filter Tm		Contraction	* o.o
# CC 7	15.3 degrees	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 bases
	72,0 degrees C  3' End Length	וא. בשם דבוואריו	A hasea
AT+GC III	s 1 nMol/A260 Run length	Run length	
Absorbance		palindrome length	0 Dayes
	34.9 ug/A4.00	4	3 bases
ADSOLDSHICE	36.53 æ	Hairpin loop stem tengtm	
Percent GC	[ON] [-0-1 0 00		
2 + 1 + 0	-38.9 KCBL/FOL		
	-174.6 kCal/Mol		
Delta H	-448.9 eu		
Delta 3	רטא/ ניטיני די		
3' End Delta G	-5.1 KC41/1301		
	Structural An	Structural Analysis Summary	
		0 / 0	

Analysis of "table 13 ( DTMB primer 16S-H )" a 20-mer DNA Oligonucleotide (Antisense) TG CIC ひむひ TCT ひいい CGT CTC 1**0** 

Oligonucieotide Analysis	Alia1y51S Farall	erera	
	Delta G Temperature	25.0 degrees C	υ
71.7 degrees C	Probe concentration	0.6 pMol	
64.1 degrees C	Salt concentration	1000.0 mMol	
76.4 degrees C	Formamide concentration	8 O.O	
68.0 degrees C	3' End length	7 bases	
6.1 nMol/A260	Run length	4 bases	
37.2 ug/A260	Palindrome length	8 bases	
70.0 %	Hairpin loop stem length	3 разез	
-37.1 kCal/Mol			
-157.8 kCal/Mol			
-398.9 eu			
-7.9 kCal/Mol_			٦
	6052.0 6052.0 64.1 degrees C 64.1 degrees C 76.4 degrees C 68.0 degrees C 6.1 nMol/A260 37.2 ug/A260 70.0 % -37.1 kcal/Mol -157.8 kcal/Mol -157.9 kcal/Mol -7.9 kcal/Mol	degrees C Probe concentrated Gegrees C Salt concentrated Gegrees C Formamide concederes C 3' End length nMol/A260 Run length palindrome length Palimolop S kcal/Mol	degrees C Probe concentration degrees C Salt concentration degrees C Salt concentration degrees C Formamide concentration degrees C Salt concentration

Summary	
Analysis	
Structural	

Number	of	base runs	\	palindro	omes	0 / 0
Number	οf	hairpin loops				0
Number	of	dimers	\	2-oligo	dimers	0 / 0
Number	of	bulge loops	\	2-oligo	bulges	0 / 0
Number	of	internal loops	\	2-oligo	internals	0 / 0

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

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Structural Analysis Summary

/ palindromes

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sense	U	
14 ( DTMB primer 16S-L )" a 22-mer DNA Oligonucleotide (Sense)	SOT THE THE BEG TOTAL STEEL CO.	5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
DNA Oligo	TGT	-
а 22-тег	ATG	
"( I-S9I	7 Late	1
B primer		)
14 ( DTM	ָ ֓֞֝֞֝֞֝֓֓֓֓֞֝֓֓֓֓֞֝֓֓֓֓֓֓֡֓֓֓֡֓֡֓֓֓֡֓֓֡֓֡֓֡֓֡	りし
t "table 14	2	
	4 I I	AAA
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C Separate	Co. C. degrees	0.6 pMO1	TOTAL 0.001	2 2 2	2 T T T T T T T T T T T T T T T T T T T		) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	1					
Analysis Parameters	Delta G Temperature	27 9 degrees C Probe concentration	60 3 degrees C Salt concentration	69.5 degrees C Formamide concentration	End length	in length	Palindrome length	Hairpin loop stem length					
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		5/300.4	An 3 degrees C Sa	69.5 degrees C FC	64 o degrees C  3' End length	A 9 mol/A260 Run length	22 3 3 3 4 A 2 60 Pe		kcal/Mol	LOS KCAL/MOL	-444 2 eu	-4 9 kCal/Mol	
	Oligonucieo	Molecular weight	Tm thermodynamic	Filter Tm	& GC Th	AT+GC Tm	Absorbande	Absorbance	Percent GC	Delta G	Delta H	Delta 3	

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops /

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0

Structural Analysis Summary

/ palindromes

<u>-</u> Analysis of "table 15 ( DTMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense) CHH TIC CTA GCT CTT C G G 5

2) i account 10	Oligonial Portide Analysis		Analysis Parameters	neters
Tanuah Ta	A 6002		Delta G Temperature	25.0 degrees C
Molecular Weignt	7.02.0		+	
O interest the second	68.8	degrees C	68.8 degrees C∦Probe concentration	O.6 pMot
THE CHARGE TOWN THE			\$ 0	רסאש ט טטטר
Filter Tm	61.2	degrees C	61.2 degrees C Salt Concentration	10:10:00
£ ()	71.3	degrees C	71,3 degrees C Formamide concentration	* 0.0
1 7 3 P	1 1 1	1	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	7 bases
AT+GC Th	0.99	degrees C	66.0 degrees C 3' End Lengin	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	T.	0924/ LOWIT	k a mol/accolBun length	4 Dases
Absorbance	י י	)		9000
	35.5	35.5, ug/A260	Palindrome length	ם מסתים
	0		usirnin loop atem length	3 bases
Percent GC	# O.OG	p	מסלים די המים ביים שו היו המיום ביים	. !
Delta G	-37.5	-37.5 kcal/Mol		
H 41 CC	-172.0	-172.0 kCal/Mol		
	-444.3 eu	en		
	(	1.000		
[3' End Delta G	0./-	-/.U XCAL/MOL_		

Analysis of "table 16 ( DTMB primer 125-L )" a 19-mer DNA Oligonucleotide (Sense) A L GGC GGC GTA ATC TCT ر<u>ا</u> -

າ ງ	ters.	25.0 degrees C 0.6 pMol 1000.0 mMol 0.0 % 7 bases 4 bases 8 bases 3 bases
O WOT THE COL	Analysis Parameters	Delta G Temper C Probe concent; C Salt concent; C 3' End length O Run length Palindrome ler Hairpin loop s
	Molecular weight	1 1.

0 / 0 / 2-oligo dimers / 2-oligo bulges / 2-oligo internals Structural Analysis Summary / palindromes Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

-3.5 kCal/Mol\_

	sense)	
	tide (Anti:	( )
	11 gonucleo	2000
() E180	" a 21 met DNA Oligonucleotide (Antisense)	GGC GAT TCT ACG GCA CCC 2.
.H ) " a 27.	77 8	りして
e 17 ( TCMB primer 16S-H ) " =		LU.
7 ( TCMB p		A.I. T
tabl	7	و ا
nalysis of "	ر ا	
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	rs	25.0 degrees C	0.6 pMol	1000.0 mMol	æ 0.0	7 bases	4 bases	8 bases	3 bases			
Anning	omnovet	coptraction		2	orth		Jenath	Hairpin loop atem leage.	unfiller was de			
	3 Delta G Temporation	80.4 degrees C Probe concentration	72.8 degrees C Salt concentration	78.6 degrees C Formamide Concentration	72.0 degrees c∥3' End length	5.1 nMol/A260 Run length	33.3 ug/A260 Palindrome length			-186.4 kcal/Mol	ne c	-12.8 kcal/Mol
nucleotide And	39		72.	78.	72.		e e	71.	-44.	-186.	-468.6 eu	
Molecular weight	The thermodynamic	Filter Im	GC Th	AT+GC Im	Absorbance	Absorbance	Percent GC	Delta G	Delta H	Delta	3' End Delt-	51 +11

	0 / 0	0 / 0	00
tural A	of hairpin loops		' ĕ

2-oligo dimers 2-oligo bulges 2-oligo internals

Number of base runs Number of hairpin loops Number of dimers Number of bulge loops Number of internal loops

Structural Analysis Summary

/ palindromes

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m Analysis of "table 18 ( TCMB primer 16S-L )" a 22-mer DNA Oligonucleotide (Sense) A GTC TAT CAA し E し し E U せらし 4

- M	
A CTG GTC CTC AAC TAT GTC A 3'	Analysis Parameters
TAT	Analvsis
AAC	
CHC	
GIC	soride and veis
A CTG	000000000000000000000000000000000000000
I AA	7: 70
u)	

Oligonucleotide Analysis	de Analysis	Street British	
Molecular weight	6758.5	Delta G Temperature	25.0 degrees C
	60.7 деятеев (	60.7 degrees C Probe concentration	0.6 pMol
THE CHARLES OF THE CONTROL OF THE CO	53.1 degrees	53.1 degrees C Salt concentration	1000.0 mMol
	67.6 degrees (	67.6 degrees C Formamide concentration	8 0.0
AT+GC TE	62.0 degrees (	62.0 degrees C 3' End length	7 bases
Absorbance	4.7 nMol/A260 Run length	Run length	4 bases
Absorbance	31.7 ug/A260	Palindrome length	8 bases
Percent GC	40.9 %	Hairpin loop stem length	3 bases
Delta G	-31.7 kCal/Mol		
Delta H	-153.3 kCal/Mol		
Delta 3	-400.5 eu		
3' End Delta G	-4.1 kCal/Mol_		

Analysis of "table 19 ( TCMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense)

η	1
IJ	
HATT CAG CCA CGA TTC CCT C 3	Analysis Parameters
TIC	Analysis
CGA	
ないひ	
CAG	oricle Analysis
ATT	cleoride Analysis
ひじじ	unopito
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Olimonucleoride Analysis		Analysis Parameters	neters	-
Molemiler veight	! .	Delta G Temperature	25.0 degrees C	7)
	74.6 degrees C	74.6 degrees C Probe concentration	0.6 pMol	
Filtor Tm	67.0 degrees C	67.0 degrees C Salt concentration	1000.0 mMol	
C THE	75.0 degrees C	75.0 degrees C Formamide concentration	<b>8</b> 0 . 0	
AT+GC TH	70.0 degrees C	70.0 degrees C 3' End length	7 bases	
Absorbance	5.1 nMol/A260 Run length	Run length	4 bases	
Absorbance	34.2 ug/A260	34.2 ug/A260   Palindrome length	в разез	
Percent GC	59.1 %	Hairpin loop stem length	зразез	_
Delta G	-40.8 kcal/Mol			_
Delta H	-176.0 kcal/Mol			_
Delta 3	-447.5 eu			
3' End Delta G	-7.9 kCal/Mol_			7

Summary	
•	
Analysis	
Structural	
St	

Number	of	base runs	\	palindro	romes	o \ o
Number	of	hairpin loops				, O
Number	of	dimers	\	2-oligo	dimers	0 '
Number	οf	bulge loops	\	2-oligo	bulges	0 / 0
Number	of	internal loops	\	2-oligo	internals	0 / 0

of "table 20 ( TCMB primer 12S-L )" a 21-mer DNA Oligonucleotide (Sense)	Analysis Parameters
rsis of "table 20 ( TCMB primer ]	1
Analy	)

		And Lysts 141		
			25.0 degrees	,
Oligonucieotiue Anail		Thelta G Temperature	(ONS)	_
	6432.3		0.0 PROT	_
Molecular Weight	na 2 degrees C	so 2 degrees C Probe concentration	1000.0 mMol	_
Im thermodynamic	El 6 degrees C	gi & dagrees C Salt concentration	8 O C	_
Filter Tm	C Appringed C	As a degrees C Formamide concentration	7 bases	
& GC Th	on degrees C 3' End length	3' End length	4 bases	
AT+GC Th	A B pMol/A260 Run length	Run length	8 bases	
Absorbance	30 6 ug/A260	Palindrome length	3 разез	
Absorbance	_	Hairpin loop stem lengtm		
Percent GC	-31 7 kCal/Mol			
Delta G	159 4 kCal/Mol			
Delta H	-421.0 eu			
Delta S	_3 9 kCal/Mol_			
3' End Delta G				

0	0000	
Structural Analysis Summary	/ palindromes / 2-oligo dimers / 2-oligo bulges / 2-oligo internals	
Structural	of base runs of hairpin loops of dimers of bulge loops	
	Number o Number o Number o Number o	

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

0

Structural Analysis Summary

/ palindromes

Analysis of "table 21 (PCMB primer 16S-H )" a 22-mer DNA Oligonucleotide (Antisense)

## <u>m</u> TGC ATG ATG ATG CTG GTT CGT Ŋ

Molecular weight The thermodynamic Filter Th  # GC Th  AT+GC Th  Absorbance  Accordance  A	degrees C degrees C degrees C degrees C ug/A260 ug/A260 kg kCal/Mol	67.5  Garage C Probe concentration 57.1 degrees C Salt concentration 69.5 degrees C Salt concentration 64.0 degrees C 3' End length 4.9 nMol/A260 Run length 73.4 ug/A260 Palindrome length 745.5 % Hairpin loop stem length 750.2 kCal/Mol	25.0 degrees 0.6 pMol 1000.0 mMol 0.0 % 7 bases 4 bases 8 bases 3 bases
Delta S	[ON] [ON]		

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops /

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0

Structural Analysis Summary

/ palindromes

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Sense	m
otide (	Ü
r DNA Oligonucle	TAT G 3
DNA	Ŋ
22 ( PCMB primer 16S-L )" a 19-mer DNA C	TAG
, d	l
I ) "	TCT
-S91	
ner	TCC
prin	H
O GB	_
( P	CCT
22	Ü
able	ATT
f "t	T
0 5	4
Analysis of "table 22	-
Апа	Ŋ

	U		_		_	_	_	_	_	_		_	
	25.0 degrees C	0.6 pMol	mMo1	ď	4	, הם ה ה	Dases	bases		ט ממת ה			
meters	25.0	9.0	1000.0 mMol	8 0.0		` '	7"	8	r	1			
Analysis Parameters	mperature	entration	entration	61.1 degrees C∥Formamide concentration	ath			rength	Hairpin loop stem length				
	Delta G Temperature	49.5 degrees C Probe concentration	41.9 degrees C Salt concentration	Formamide of	52.0 degrees C  3' End length	5.8 nMol/A260 Run length	Do 1 : 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ratingtowe renden	Hairpin loc	•			
		degrees C	degrees C	degrees C	degrees C	nMo1/A260	13 6 mg/bo			-26.1 kCal/Mol	-138.8 kCal/Mol	ne	-3.1 kCal/Mol_
Analysis	3.68.C	4. V. J.	41.9	61.1	52.0	5.8	33.6	) (	36.8 %	-26.1	-138.8	-371.5 eu	-3.1
Molecular weight	The theory of the	Filton The				Absorbance	Absorbance	70 + 1001	י ביינוני פר	Delta G	Delta H	Delta S	3' End Delta G

m Analysis of "table 23 ( PCMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense) H TAC CCC ATG ACT CTT GAA GCT ال -

neters	25.0 degrees C 0.6 pMol 1000.0 mMol 7 bases 4 bases 8 bases 3 bases	
Analysis Parameters	Delta G Temperature 60.3 degrees C Probe concentration 52.7 degrees C Salt concentration 69.5 degrees C Formamide concentration 5.0 nMol/A260 Palindrome length 73.6 ug/A260 Palindrome length Hairpin loop stem length 64.7 kCal/Mol 66.6 kCal/Mol	
e Analysis	degrees C degrees C degrees C degrees C nMol/A260 ug/A260 k kCal/Mol kCal/Mol	
Olimpin Portide Analysis	Molecular weight The thermodynamic Filter The % GC The Absorbance Percent GC Delta G Dolta B 3: End Delta G	

Number	of	base runs	/ palindromes 0 / 0	
Number	of	hairpin loops	:	
Number	of	dimers	o dime	
Number	of	bulge loops	-oligo bulges	
Number	of	of internal loops	/ 2-oligo internals 0 /	

<u>m</u> Analysis of "table 24 ( PCMB primer 12S-L )" a 20-mer DNA Oligonucleotide (Sense) TG CTA GAA GAC ATT ひひひ D -

Analysis Parameters Oligonucleotide Analysis

Oligonucieotide Analysis	de Analysis		MIGINST	MIGINSIB FRIGHELELS	
Molecular weight	6182.1		Delta G Temperature	25.0 degrees C	os C
Tm thermodynamic	68.1	degrees C	68.1 degrees C Probe concentration	0.6 pMol	
Filter Im	60.5	degrees C	60.5 degrees C Salt concentration	1000.0 mMol	
S GC TH	70.3	degrees C	70.3 degrees C Formamide concentration	% 0.0 uc	
AT+GC Th	62.0	degrees C	62.0 degrees C 3' End length	7 bases	
Absorbance	5.3	nMol/A260	5.3 nMol/A260 Run length	4 bases	
Absorbance	32.5	ug/A260	32.5 ug/A260 Palindrome length	8 bases	
Percent GC	55.0 %	æ	Hairpin loop stem length	gth 3 bases	
Delta G	-35.6	-35.6 kCal/Mol			-
Delta H	-159.4	-159.4 kCal/Mol			
Delta 3	-408.5 eu	en			
3' End Delta G	-4.1	-4.1 kCal/Mol			

Number of	of	base runs	/ palindromes	0 / 0
Number	of	hairpin loops		0
Number	of	dimers	/ 2-oligo dimers	0 / 0
Number	ot	bulge loops	/ 2-oligo bulges	0 / 0
Number	οf	internal loops	/ 2-oligo internals	0 / 0

2-oligo dimers 2-oligo bulges 2-oligo internals

Number of dimers Number of bulge loops Number of internal loops

Number of base runs Number of hairpin loops

Structural Analysis Summary

/ palindromes

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Analysis of "table 25 ( SIMB primer 16S-H )" a 18-mer DNA Oligonucleotide (Antisense) m TGG CHC CGG TAA GCA TAC 5

ar weight nodynamic Im	5579.7 61.4 degrees		
In thermodynamic Filter Tm	61.4 degrees	Delta G Temperature	25.0 degrees C
Filter In		61.4 degrees C Probe concentration	0.6 mMc
	53.8 degrees	53.8 degrees C Salt concentration	1000 0 mMol
	66.8 degrees	66.8 degrees C Formamide concentration	8 0 0
AT+GC Tm	56.0 degrees	56.0 degrees C 3' End length	7 bases
Absorbance	5.9 nMol/A260 Run length	O Run length	1 0 0
Absorbance	32.8 uq/A260	Palindrome length	
Percent GC	55.6 %		2 T T T T T T T T T T T T T T T T T T T
Delta G	-31.0 kCal/Mol		מ מ מ מ
Delta H	-143.5 kCal/Mol		
Delta S	-370.2 eu		
[3' End Delta G	-7.9 kCal/Mol	,	

2-oligo dimers 2-oligo bulges 2-oligo internals

Number of internal loops

of hairpin loops of dimers of bulge loops

Number Number

Number of base runs

Structural Analysis Summary

/ palindromes

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Analysis of "table 26 ( SLMB primer 16S-L )" a 22-mer DNA Oligonucleotide (Sense)

m ATC TAC AAC CHC CAC CTA CTA Ŋ

nnc	leotide Analysis			Analysis Parameters	meters	
Molecular weight	6638.4		Delta	Delta G Temperature	25.0	25.0 degrees C
Tm thermodynamic	52.4	degrees C	Probe	52.4 degrees C Probe concentration	0.6 pMol	pMol
Filter Im	44.8	degrees C	Salt	44.8 degrees C Salt concentration	1000.0 mMol	mMo.1
4 GC 17m	67.6	degrees C	Formar	67.6 degrees C Formamide concentration	\$ 0.0	æ
AT+GC ID	62.0	62.0 degrees C 3' End length	3' Enc	d length	7	7 bases
Absorbance	4.9	4.9 nMol/A260 Run length	Run 16	ength	4	bases
Absorbance	32.8	32.8 ug/A260		Palindrome length	80	8 bases
Percent GC	40.9%	æ	Hairp	Hairpin loop stem length	m	3 bases
Delta G	-27.6	-27.6 kCal/Mol				
Delta H	-146.8	-146.8 kCal/Mol				
Delta 3	-392.2 eu	en				
[3' End Delta G	-3.8	-3.8 kCal/Mol_				

Analysis of "table 27 ( SLMB primer 12S-H )" a 19-mer DNA Oligonucleotide (Antisense) ~ CHC TAA TGC CAC ACT CCC **1**0

) )	eters	25.0 degrees C 0.6 pMol 1000.0 mMol 0.0 % 7 bases 4 bases 8 bases 3 bases
)	Analysis Parameters	
	Oligonucleotide Analysis	degrees C degrees C degrees C degrees C nMol/A260 ug/A260 % kCal/Mol kCal/Mol kCal/Mol
	Molecular Weight	Tm thermodynamic Filter Tm & GC Tm AT+GC Tm Absorbance Absorbance Percent GC Delta G Delta H Delta S

Structural Analysis Summary

Number of base runs / palindromes 0 / 0

Number of hairpin loops / 2-oligo dimers 0 / 0

Number of bulge loops / 2-oligo bulges 0 / 0

Number of internal loops / 2-oligo internals 0 / 0

Analysis of "table 28 ( SLMB primer 12S-L )" a 21-mer DNA Oligonucleotide (Sense) **m** TOL TCA CTA TAA 5

25.0 degrees c 0.6 pMol 1000.0 mMol 0.0 % bases bases bases bases 4 B E CCT Analysis Parameters Hairpin loop stem length Delta G Temperature
58.5 degrees C Probe concentration
66.9 degrees C Salt concentration
60.0 degrees C Formamide concentration
5.1 nMol/A260 Run length
32.6 ug/A260 Palindrome length -153.4 kCal/Mol -6.3 kCal/Mol\_ -30.8 kCal/Mol -403.9 eu Oligonucleotide Analysis Molecular weight Im thermodynamic 3' End Delta G Absorbance Absorbance Percent GC Filter Tm AT+GC TH & GC Tm Delta G Delta H Delta S

0 / 0	, 0 0	) ) )	0 / 0
/ palindromes	/ 2-oligo dimers	-oligo bulge	/ 2-oligo internals
base runs hairpin loops	์ ๓ ์	buige loops internal loops	sdoot to
of of	of	0 6	
Number	Number	Number	